APPLA. FILING DATE: JULY 6, 2001
TITLE: NOVEL REGULATORY SEQUENCES OF THE MCP-1
GENE
INVENTOR(S): RÖSL ET AL
APPLICATION SERIAL NO: TBA
SHEET 1 of 10

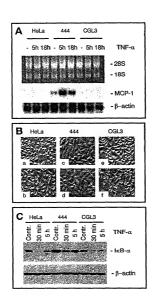


Fig. 1

APPLN. FILING DATE: JULY 6, 2001 $\mbox{\bf TITLE:}\,$ NOVEL REGULATORY SEQUENCES OF THE MCP-1 GENE

INVENTOR(S): RÖSL ET AL APPLICATION SERIAL NO: TBA SHEET 2 of 10

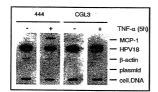


Fig. 2

APPLA. FILING DATE: JULY 6, 2001
TITLE: NOVEL REGULATORY SEQUENCES OF THE MCP-1
GENE
INVENTOR(S): RÖSL ET AL
APPLICATION SERIAL NO: TBA
SHEET 3 of 10

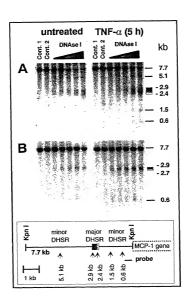
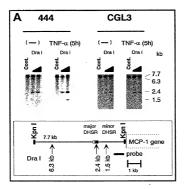


Fig. 3



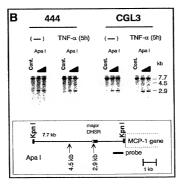


Fig. 4

APPLN. FILING DATE: JULY 6, 2001 TITLE: NOVEL REGULATORY SEQUENCES OF THE MCP-1 GENE INVENTOR(S): RÖSL ET AL APPLICATION SERIAL NO: TBA

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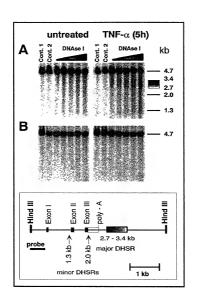


Fig. 5

APPLN. FILING DATE: JULY 6, 2001

TITLE: NOVEL REGULATORY SEQUENCES OF THE MCP-1 GENE

INVENTOR(S): RÖSL ET AL APPLICATION SERIAL NO: TBA

SHEET 6 of 10

Minor	5 DHSR (5.1 k)	subfracmen	nt)			
-5050			GCGTGATGTC	ATCTCCCTCT	AGTCCCAGCT	
-3030	SP		GCGIGAIGIC	AIGIGCCIGI	AGICCCAGCI	
-5000	ACTCGGGAGG	CTGAGGCAGG	AGAACCTCTT	GAATCCAGGA	GGCGCAGGTT.	
-4950		GAGATAGTGC	CACTGCACTC	CAGCCTGGGT	GACAGAGTGA	
-4900	GACTCTGTCT	CAAAAAAATA	AAATAAAATA	AAAAATGCAG	ACTGTGATTC	
-4850	AGCAGGTCTG	GGTTGAAGCC	CAGAACTCTC	TGATAAATTC	AATGGCACTT	
-4800	AACTACTTGG	AGGTCATGGA	TGCCTTTGCT	AATCTAATAG	AAGCTACTGA	
Vador	Major 5 DHSR (2.9 - 2.4 kb subfragments)					
-2750	accommomance	CT CT RD SUD	CAGCACAGCC	001 0000101	2000200000	
-2750		GAGATGTTCC	CAGCACAGCC	CCATGTGAGA	GCTCCCTGGC	
	Apa I					
-2700	TCCGGGCCCA	GTATCTGGAA	TGCAGGCTCC	AGCCAAATGC	ATTCTCTTCT	
		NFKR			NFKB	
-2650	A COCCA A TROTTO	CONTOUR	AACCTCCCTC	CTC3C3CTCC	CAATTTCCAG	
-2600	TC3CTTCTCT	CACCCCACCA	AAGCTGCCTC CTGACCTCCC	ACCCCCCCAC	CCCITCCTC	
	TCACTTCTCT	CACGCCAGCA	CIGACCICCC	AGCGGGGAG	GGCATCTTT	
-2550	CTTGACAGAG	CAGAAGTGGG	AGGCAGACAG	CTGTCACTTT	CCAGAAGACT	
-2500	TTCTTTTCTG	ATTCATACCC	TTCACCTTCC	CTGTGTTTAC	TGTCTGATAT	
-2450	ATGCAAAGGC	CAAGTCACTT	TCCAGAGATG	ACAACTCCTT	CCTGAAGTAG	
-2400	AGACATGCTT	CCAACACTCA	GAAGCCTATG	TGAACACTCA	GCCAGCAAAG	
			SP 1			
-2350	CTGGAAGTTT	TTCTCTGTGA	CCATGGGCTA		TTCTCTGCAT	
-2550	CIGGRAGILL	TICICIOIGA	AP-1	MI TOUTETEE	TICICIOGAL	
-2300						
	TGTGGCTTAT	CAGATAAAAA	CAAGTGAGTC	ATGCCACAGG	ATGTCTATAA	
-2250	GCCCATTGAT		TATGAGTGAT	GCTGATATGA	CTAAGCCAGG	
		Dra I				
-2200	AGAGACTTAT	TTAAAGATCT	CAGCATCTTT	CAGCTTGTTA	ACCTAGAGAA	
-2150	AACCCGAAGC	ATGACTGGAT	TATAAAGGGA	AATTGAATGC	GGTCCACCAA	
Minor	5 DHSR (1.5 k)	. euhfracme	nt)			
	3 DIIDIN (2.13 A	SP 1	,		Dra I	
-1300	**********		0010110001	a.a.ma.a.		
	AAGGAGGAGG	CAGTGGGCTA	$\underline{GG}\mathtt{AGAATCGA}$	GAGATCAGAA	TTTTAAACTC	
-1250	AGCCCAGCCA	TTAACATGCC	TCAAGTACTC	CTATCATATT	TGTAAGAGAC	
-1200	AACAGTTCAC		TCTAAGGTCT	TTGGGTTTTT	ATCAGTGTGC	
		NF-IL 6				
-1150		TCTGAGGAAA	TCTAAGGCAC	AACTGAGGAA	TGAAGTCAGG	
-1100	CTTTCCAATT	CCCCANAMAC	=			
					TCCCTTGGAA	
-1050	ATTAAGAAGG	AAGCCAGGAG	CATAGCTGCC	ATAACCAGGG	TCCCTTGGAA ATGAACTTCT	
	ATTAAGAAGG	AAGCCAGGAG	CATAGCTGCC	ATAACCAGGG	ATGAACTTCT	
-1050	ATTAAGAAGG	AAGCCAGGAG	CATAGCTGCC	ATAACCAGGG	ATGAACTTCT	
-1050 Minor	ATTAAGAAGG 5 DHSR (0.6 k)	AAGCCAGGAG subfragmen	CATAGCTGCC	ATAACCAGGG	ATGAACTTCT	
-1050 - Minor - 500	ATTAAGAAGG 5 DHSR (0.6 ki AGGCTTCTAT	AAGCCAGGAG subfragmen GATGCTACTA	CATAGCTGCC nt) TTCTGCATTT	ATAACCAGGG GAATGAGCAA	ATGAACTTCT	
-1050 - Minor - 500 - 450	ATTAAGAAGG 5 DHSR (0.6 kl AGGCTTCTAT TGCATTGTCA	AAGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA	ATAACCAGGG GAATGAGCAA GAGCTCCTTC	ATGAACTTCT ATGGATTTAA CTGGCTGGGA	
-1050 Minor - 500 - 450	ATTAAGAAGG 5 DHSR (0.6 ki AGGCTTCTAT TGCATTGTCA GGCCCCTTGG	AAGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC AATGTGGCCT	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC	
-1050 Minor - 500 - 450 - 400 - 350	ATTAGAAGG 5 DHSR (0.6 ki AGGCTTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG	AAGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC AATGTGGCCT TTTCCTCGCT	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTTT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT	ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA	
-1050 Minor - 500 - 450	ATTAAGAAGG 5 DHSR (0.6 ki AGGCTTCTAT TGCATTGTCA GGCCCCTTGG	AAGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC AATGTGGCCT TTTCCTCGCT	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTTT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT	ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA	
-1050 • Minor - 500 - 450 - 400 - 350 - 300	ATTAAGAAGG 5 DHSR (0.6 ki AGGCTTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGCAGAA	AAGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC AATGTGGCCT TTTCCTCGCT TCCTTAAAAA	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT	ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA	
-1050 • Minor - 500 - 450 - 400 - 350 - 300	ATTAGAAGG 5 DHSR (0.6 ki AGGCTTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG	AAGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC AATGTGGCCT TTTCCTCGCT TCCTTAAAAA	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT	ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor	ATTAAGAAGG 5 DHSR (0.6 ki AGGCTTCTAT TGCATTGTCA GGCCCTTGG TTTCATCTAG GAAAGCAGAA 3 DHSR (1.3 ki	AAGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC AATGTGGCCT TTTCCTCGCT TCCTTAAAAA subfragmen	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA TGTGGTCAGT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 - 300 - 300	ATTAAGAAGG 5 DHSR (0.6 kl AGGCTTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGCAGAA 3 DHSR (1.3 kl CAAAGATCAC	AAGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC AATGTGGCCT TTTCCTCGCT TCCTTAAAAA subfragmen ATTCTAGCTC	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT nt) TGAGGTATAG	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC GCAGAAGCAC	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA TGTGGTCAGT TGTGGTCAGT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 800	ATTAAGAAGG 5 DHSR (0.6 ki AGGCTTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGCAGAA 3 DHSR (1.3 ki CAAAGATCAC TGAGCTCTTT	AAGCCAGGAG subfragmer GATGCTACTA GGGAGCCGGC AATGTGGCCT TCCTTAAAAA subfragmer ATTCTAGCTC CTCTTCTAGCTC CTCTTCTAGCTC	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT nt) TGAGGTATAG GCCTGCCTTT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC GCAGAAGCAC TGCTTTTTCC	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA TGTGGTCAGT TGGGATTTAA TCATGACTCT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 - 300 - 300	ATTAAGAAGG 5 DHSR (0.6 kl AGGCTTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGCAGAA 3 DHSR (1.3 kl CAAAGATCAC	AAGCCAGGAG subfragmer GATGCTACTA GGGAGCCGGC AATGTGGCCT TCCTTAAAAA subfragmer ATTCTAGCTC CTCTTCTAGCTC CTCTTCTAGCTC	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT nt) TGAGGTATAG GCCTGCCTTT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC GCAGAAGCAC TGCTTTTTCC	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA TGTGGTCAGT TGGGATTTAA TCATGACTCT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 - 300 - 300 - 850 - 850	ATTAAGAAGG 5 DHSR (0.6 kl AGGCTTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGCAGAA 3 DHSR (1.3 kl CAAAGATCAC TGAGCTCTTT TTTCTGCTCT	AAGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC AATGTGGCCT TTTCCTGGCT TCCTTAAAAA subfragmen ATTCTAGCTC CTCTTCTCCT TAAGATCAGA	CATAGCTGCC nt) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT nt) TGAGGTATAG GCCTGCCTTT ATAATCCAGT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC GCAGAAGCAC TGCTTTTTCC	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA TGTGGTCAGT TGGGATTTAA TCATGACTCT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 800 + 850 Minor	ATTAAGAAGG 5 DHSR (0.6 kl AGGCTTCTAT TGCATTGTCA GGCCCTTGG TTTCATCTAG GAAAGCAGAA 3 DHSR (1.3 kl CAAAGATCAC TGAGCTCTTT TTCTGCTCT 3 DHSR (2.0 kl	AMGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC TTTCCTCGCT TCCTTAAAAA subfragmen ATTCTAGCTC TCTTTACTCT TAAGATCAGA	CATAGCTGCC nt) TTCTGCATTT CARAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT TAACCCTCTT TGAGGTATAG GCCTGCCTTT ATAATCCAGT nt)	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC GCAGAAGCAC TGCTTTTTCC TCATCCTAAA	ATGGATTTAA CTGGCTTGGA CTGGCTTCACA TGTGGTCAGT TGGGATTTAA TCATGACTCT ATGCTTTTTC	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 - 300 - 300 - 850 - 850	ATTAAGAAGG 5 DHSR (0.6 kl AGGCTTCTAT TGCATTGTCA GGCCCTTGG TTTCATCTAG GAAAGCAGAA 3 DHSR (1.3 kl CAAAGATCAC TGAGCTCTTT TTTCTGCTCT 3 DHSR (2.0 kl	AMGCCAGGAG subfragmen GATGCTACTA GGGAGCCGGC TTTCCTCGCT TCCTTAAAAA subfragmen ATTCTAGCTC TCTTTACTCT TAAGATCAGA	CATAGCTGCC nt) TTCTGCATTT CARAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT TAACCCTCTT TGAGGTATAG GCCTGCCTTT ATAATCCAGT nt)	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC GCAGAAGCAC TGCTTTTTCC TCATCCTAAA	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TGGCTTCACA TGTGGTCAGT TGGGATTTAA TCATGACTCT ATGCTTTTC TGTTTTATTT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 850 Minor + 1550	ATTAAGAAGG 5 THSR (0.6 kl AGGCTTCTATA TGCATTGTATA GGCCCCTTGG TTTCATCTAG GAAAGCAGAA 3 THSR (1.3 kl CAAAGATCAC TGAGCTCTTT TTTCTGCTCT 3 THSR (2.0 kl TGCAGCTAAC	AMGCCAGGAG subfragmes GATGCTACTA GGGAGCCGGC AATGTGGCT TTTCCTCGCT TCCTTAAAA subfragmes ATTCTAGCTC CTCTTCTCCT TAAGATCAGA subfragmes TTATTTTCCC	CATAGCTGCC at) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTT TAACCCTCTT at) TGAGGTATAG GCCTGCCTTT ATAATCCAGT at) CTAGCTTTCC	ATAACCAGGG GAATGAGCAG GAGCTCCTTC TGGCAGCGAG TCTGCAGCTTA AGTTCACATC GCAGAAGCAC TGCTTTTTCC TCATCCTAAA CCAGACACCT	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCTTCACA TGTGGTCAGT TGGGATTTAA TCATGACTTA TCATGACTTTC TGTTTTATTT NF-IL 6	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 800 + 850 Minor + 1550 + 1600	ATTAAGAAGS 5 THER (0.6 ki AGGCTTCTAT TECATTGTCA GCCCCTTGG GCCCCTTGG GAAGCAGAA 3 THER (1.3 ki CANAGATCAC TOAGCTCTT TTCTGCTCT 3 THER (2.0 ki TGCAGCTAAC TATTATAATG	AMGCCAGGAG subfragmen GATGCTACTA GGGAGCCGG AATGTGGCCT TTTCCTCGCT TCCTTAAAAA subfragmen ATTCTAGCTC CTCTTCTCTC TAAGATCAGA subfragmen TAAGATCAGA subfragmen TAAGATCAGA AATTTTCCC AATTTTGTTT	CATAGCTGCC nt) TTCTGCATTT CARAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT nt) TGAGGTATAG GCCTGCCTTT ATAATCCAGT nt) CTAGCTTTCC GTTGATGTGA	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC GCAGAAGCAC TCATCCTAAA CCAGACACCT AACATTATGC	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TGGCTCACA TGTGGTCACA TGTGGTCACT TGGGATTTAA TCATGACTCT ATGCTTTTTC TGTTTTATTT NF-IL 6 CTTAAGTAAT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 850 Minor + 1550	ATTAAGAAGS 5 THER (0.6 ki AGGCTTCTAT TECATTGTCA GCCCCTTGG GCCCCTTGG GAAGCAGAA 3 THER (1.3 ki CANAGATCAC TOAGCTCTT TTCTGCTCT 3 THER (2.0 ki TGCAGCTAAC TATTATAATG	AMGCCAGGAG subfragmen GATGCTACTA GGGAGCCGG AATGTGGCCT TTTCCTCGCT TCCTTAAAAA subfragmen ATTCTAGCTC CTCTTCTCTC TAAGATCAGA subfragmen TAAGATCAGA subfragmen TAAGATCAGA AATTTTCCC AATTTTGTTT	CATAGCTGCC at) TTCTGCATTT CAAAGCTTGA GAAGGTAAGC TCCTTCCTT TAACCCTCTT at) TGAGGTATAG GCCTGCCTTT ATAATCCAGT at) CTAGCTTTCC	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC GCAGAAGCAC TCATCCTAAA CCAGACACCT AACATTATGC	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TGGCTCACA TGTGGTCACA TGTGGTCACT TGGGATTTAA TCATGACTCT ATGCTTTTTC TGTTTTATTT NF-IL 6 CTTAAGTAAT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 800 + 850 Minor + 1550 + 1600	ATTAAGAAGS 5 THER (0.6 ki AGGCTTCTAT TECATTGTCA GCCCCTTGG GCCCCTTGG GAAGCAGAA 3 THER (1.3 ki CANAGATCAC TOAGCTCTT TTCTGCTCT 3 THER (2.0 ki TGCAGCTAAC TATTATAATG	AMGCCAGGAG subfragmen GATGCTACTA GGGAGCCGG AATGTGGCCT TTTCCTCGCT TCCTTAAAAA subfragmen ATTCTAGCTC CTCTTCTCTC TAAGATCAGA subfragmen TAAGATCAGA subfragmen TAAGATCAGA AATTTTCCC AATTTTGTTT	CATAGCTGCC nt) TTCTGCATTT CARAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT nt) TGAGGTATAG GCCTGCCTTT ATAATCCAGT nt) CTAGCTTTCC GTTGATGTGA	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCAGG TCTGCAGCTT AGTTCACATC GCAGAAGCAC TGCTTTTTCC TCATCCTAAA CCAGACACCT AACATTATGC AAGTTTATCT	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TGGCTCACA TGTGGTCACA TGTGGTCACT TGGGATTTAA TCATGACTCT ATGCTTTTTC TGTTTTATTT NF-IL 6 CTTAAGTAAT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 800 + 850 Minor + 1550 + 1600	ATTAAGAAGS 5 DHSR (0.6 k) AGGCTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGCATG 3 DHSR (1.3 k) CAAAGATCAT TTTCTGCTCT 3 DHSR (2.0 k) TCCAGCTAG TTCTGCTCT TTTCTGCTCT TTTCTGCTCT TATTATAATG GTTAATTCTT	AMGCCAGGAG subfragmen GATGCTACTA GGGAGCGGC AATGTGGCCT TTTCCTCAAAA subfragmen ATTCTAGGTC TCTTTAAGATCAGAC subfragmen TTATTTTCCC TAAGATCAGA CAATTTTTCCC AATTTTTTTT ATTTAAGTTA	CATAGCTGCC Int) TTCTGCATTT CARAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT INT) TGAGGTATAG GCCTGCCTTT ATAATCCAGT INT) CTAGCTTTCC GTTGATGTGA TTGATGTTGAT NF-IL	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC TCATCCTAAA CCAGAAGCAC CCAGACACCT AACATTATGC AACATTATCC 6	ATGAACTTCT ATGGACTGGA CCTGACAGGA CCTGACAGGA TGGGTCAGT TGGGTCAGT TGGGATTTAA TCATGACTCT ATGCTTTTC TGTTTTATTT NP-1L 6 CTTAAGTAAT TCATGGTAAT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 - 400 + 750 + 800 + 850 - Minor + 1550 + 1600 + 1650	ATTAAGAAGS 5 DHSR (0.6 k) AGGCTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGCATG 3 DHSR (1.3 k) CAAAGATCAT TTTCTGCTCT 3 DHSR (2.0 k) TCCAGCTAG TTCTGCTCT TTTCTGCTCT TTTCTGCTCT TATTATAATG GTTAATTCTT	AMGCCAGGAG subfragmen GATGCTACTA GGGAGCGGC AATGTGGCCT TTTCCTCAAAA subfragmen ATTCTAGGTC TCTTTAAGATCAGAC subfragmen TTATTTTCCC TAAGATCAGA CAATTTTTCCC AATTTTTTTT ATTTAAGTTA	CATAGCTGCC at) TTCTGCATTT CARAGCTTGA GAAGGTAAGC TCCTTCCTTT TAACCCTCTT TAACCCTCTT ATAATCCAGT at) CTAGCTTTCC GTTGATGTGA GTTGATGTGA TTGATGTTTT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC TCATCCTAAA CCAGAAGCAC CCAGACACCT AACATTATGC AACATTATCC 6	ATGAACTTCT ATGGACTGGA CCTGACAGGA CCTGACAGGA TGGGTCAGT TGGGTCAGT TGGGATTTAA TCATGACTCT ATGCTTTTC TGTTTTATTT NP-1L 6 CTTAAGTAAT TCATGGTAAT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 850 Minor + 1550 + 1600 + 1650 + 1700	ATTAAGAAGS 5 DHSR (0.6 k) AGGCTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGACCA 3 DHSR (1.3 k) CAAAGATCAT TTTCTGCTCT 3 DHSR (2.0 k) TCCAGCTAAC TATTATAATG GTTAATTCTT TAGTGTTTT TAGTGTTTT TAGTGTTTTT TAGTGTTTTT TAGTGTTTTT	ARGCCAGGAG Subfragmes GATGCTACTA GGGAGCCGC ARTGTGGCT TTTCCTGCT TCCTTAAAA Subfragmes ATTCTAGCTC CTCTTCTCT TAAGATCAGC Subfragmes TTATTTCCC AATTTTGTT ATTTAAGTTA TAGATACAGA	CATAGOTGCC III. TTCTGCATTT CARAGCTTGA GARGGTAGGC TCCTTCCTTT TARCCCTCTT TARCCCTCTT TARCCCTCTT ATAATCCAGT III. CTAGCTTATCC GTTGATGTGA TTGATGTTGAT NF-IL GACTTGGGGA	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC TCATCCTAAA CCAGAAGCAC CCAGACACCT AACATTATGC AACATTATCC 6	ATGAACTTCT ATGGACTGGA CCTGACAGGA CCTGACAGGA TGGGTCAGT TGGGTCAGT TGGGATTTAA TCATGACTCT ATGCTTTTC TGTTTTATTT NP-1L 6 CTTAAGTAAT TCATGGTAAT	
-1050 - Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 850 Minor + 1550 + 1600 + 1650 + 1700	ATTAAGAAGS 5 DHSR (0.6 k) AGGCTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGCATG 3 DHSR (1.3 k) CAAAGATCAT TTTCTGCTCT 3 DHSR (2.0 k) TCCAGCTAG TTCTGCTCT TTTCTGCTCT TTTCTGCTCT TATTATAATG GTTAATTCTT	ARGCCAGGAG Subfragmes GATGCTACTA GGGAGCCGC ARTGTGGCT TTTCCTGCT TCCTTAAAA Subfragmes ATTCTAGCTC CTCTTCTCT TAAGATCAGC Subfragmes TTATTTCCC AATTTTGTT ATTTAAGTTA TAGATACAGA	CATAGOTGCC ant) TTCTGGCATTT CAAAGCTTGA GAAGGTAGA TAACCCTCTT TAACCCTCTT TAACCCTCTT ATAACCTCTT CTACCTTCCTT	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAG TCTGCAGTTT AGTTCACATC TCATCCTAAA CCAGAAGCAC CCAGACACCT AACATTATGC AACATTATCC 6	ATGAACTTCT ATGGACTGGA CCTGACAGGA CCTGACAGGA TGGGTCAGT TGGGTCAGT TGGGATTTAA TCATGACTCT ATGCTTTTC TGTTTTATTT NP-1L 6 CTTAAGTAAT TCATGGTAAT	
-1050 -Minor - 500 - 450 - 400 - 350 - 300 Minor + 750 + 850 Minor + 1550 + 1600 + 1650 + 1700 Major	ATTAAGAAGS 5 DHSR (0.6 M AGGCTCTAT TGCATTGTCA GGCCCCTTGG TTTCATCTAG GAAAGACCA 3 DHSR (1.3 M CAAAGATCAT TTTCTGCTCT 3 DHSR (2.0 M TGCAGCTAAC TATTATAATG GTTAATTCTT TAGTGTTTT TAGTGTTTTT TAGTGTTTTT TAGTGTTTTT TAGTGTTTTT TAGTGTTTTT TAGTGTTTTT TAGTGTTTTT	AMGCCAGGAG Daubfragmei GATOCTATA GGAGCCGG AATGTGACA GGAGCCGG AATGTGACA GGAGCCGG AATGTGACA CCCCTAAAAA Daubfragmei TAATTTCCCC AATTTTGTT ATTTAAGTA TAGATACAGA 3.4 kb sub:	CATAGCTGCC TTCTGCATTT CAAAGCTTGA GAAGGTTAGA TCCTTCCTTT TAACCCTCTT TAACCCTCTT TAACCCTCTT ATAACCCTCTT ATAACCCTTT CAGGTATAG TCGAGGTATAG TCGAGGTATAG TCGAGGTATAG TGAATGTGA TTGAATGTGA TTGAATGTGAATGTGA TTGAATGTGAATGTGA TTGAATGAATGTGAATGTGAATGTGAATGTGAATGTGAATGTGAATGTGAATGTGAATGTGAATGTGAATGAATGTGAATGTGAATGTGAATGTGAATGA	ATAACCAGGG GANTOAGCAA GAGCTCCTTC TGGCAGCAGA TCTGCAGCTTA AGTTCACATC GCAGAAGCAC TGCTTTTTCC TCATCCTAAA CCAGACACCT AACATTATCC AAGTTATCT AATTGCTTAT	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATGC TCGCATCACA TGTGGTCACA TGTGGTATTAA TGGGATTTAA TGGGATTTAT TAATGACTCT AFF-LL 6 CTTAAGTAAT TTCATGGTAT TCATGGTAT TCATGGTAC CCTCTTGTAC	
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-1050 - Minor - 500 - 300 - 300 - 300 - 300 - 300 - 100 - 15	STHER (0.6 M) SOCITION TO CARTOTTA TAGANGAT TATATANAT TAGANATT TACCANAA TATACAA TATACAA TAGANAATT TACCAGAGGGGA TAACTATACA TAGANGGGGGGA TAACTATATAA TATCCATAGA TAACTATATAA TATCCATAGA TAACTATATAA TAATTATATA TATTCCATAGA TAACTATATAA TAATTCCATAGA TAACTATATAA TAATTCCATAGA	AMSCHAGGAG subfragmes GATGCTACTA GGGAGCGGC AATTGTACTC TTTCCTCGCT TTTCCTCGCT TTTCCTCGCT TTTCCTCGCT AATTCTACTC AATTCTACT AATTCTACT AATTCACACT AATTCACACT AATTCACACT AATTCACACT AATTCACACT AATTCACT AATTCACACA AATTCACACA AATTCACACA AATTCACACA AATTCACACA AATTCACACA AATTCACACACA	CATAGOTGCC ATTOTICATT CARAGOTTAC GARGOTAGAC TOTTICCTT TAGACCTATI TAGACCTATI TAGACCTATI TAGACTATAC GOCTOCCTT ATAATACCAGT TAGACTTACA GOCTOCCTT ATAATACTAGT TAGACTTACA GATCAGATTAC GATCAGATTAC TAGACAGATAC AAGGGANATTC AAAGGANATCA AAGGANATTCA TAGACAGAGA GAGATATACA GAGATATACA GAGCATACAG GAGCATATACA GAGCATACAG GAGCATATACA GAGCATACAG GAGCATATACA GAGCATACAG GAGATATACA GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG GAGCATACAG TAGCAGACAG	ATNACCAGGG GANTGAGCAA GAGCTCCTTC TOGGCAGCGAA TCTGGCAGCGAA TCTGCAGCTT ACTCCTATA GCAGACACCT TCATCCTAAA ACATTATCC AAACTTATCC AAACTTATCC AAATTCTAACC CCACACACCA AATTCTTTT GAAATTAGGG TTGGGATTTAGGAAACA CCACATGTCAAA AATTGTTAGGAAACA CCACATGTCAAA AATTGTAGGAAACA CCACATGTCAAA AATTGAGAAACA CCACATGTCAAA AATTGAGAAACA CCACATGTCAAA AATTGAGAAACA CCACATGTCAAA AATTGAGAAACA CGACATAAATA GAGCATAAATA	ATGAACTTCT ATGAACTTCTA ACTGGCTGGGA CCTGGACATGC TGCGCTGACATTCACT TGGGATTTAA TCATGACTCT ATGCTTTATT NF-1L 6 CTTAAGTAAT TCATGGTAC CCTCTTGTAC TGGGAGCAAA GGGAGAAAG GGGATACAA TCAGACCAAT TCAGGACAAT TCAGGAAATGC ATGAGAAAGCAATTCAGGACCAAT TCAGGACCAAT ATGCAAAAGCAATTCAGGACCAAT ATGAAAAGCAATTGTAAAAGCAATTGAAAAGCAATGCAATTCATTC	
-1050 - Minor - 500 - 300 - 300 - 300 - 300 - 300 - 300 - 10	STHARGAGG 5 THER (0.6 M AGGCTTCTAT TOCATTGTCA GGCCCCTTGG GAAGGCAGG 3 THER (1.3 M CAAAGATCAG TOLGCCTTTTTTCTCTCTCT TTTCTCTCTCT TTTCTGCTCT 3 THER (2.0 M TCAGCTAAT TATTATATG GTTAATTCTT TAGGAAAATTT TACTGGTGTTTT TAGGAAAAAT TACTGGAGG CAACAACAATCAGAGGAAATT TACTGAAGGAAATT TACTGAAAGGA TTAGAAAAGGA TTAGAAAAGGA TTACTCAACT AGGGAGGGAT TAACTTATAG AAATCAGAGA AAATCAGAAAAATTATAA	AAGCIAGGAG subfragmen GATGCTACTA GGGAGCGGC AATTITCTCAGCT CTCTTAAAAA subfragmen TATCTAGCT TAAGATCAGCA ATTITGTT TAGATCAGA ATTITGTT TAGATCAGA ATTITGTT TAGATAGATAGA ATAGATCAGA ATAGATAGAT AATAGATAGAT AATAGATAGAT AATAGATAG	CATAGCTGCC AL) TICTGCATTT CARAGCTTGA GAAGGTAACG GAAGGTAACG TCTTCCCTTT ATAATCCATT ATAATCATT ATAATCATT ATAACAATCA AGGGGATATCAT AAAGGAAAACG ATAGGAAAACG ATAGGAAAACG ATAGGAAAACG ATAGAAAACG ATAGAAAACA AAAGGAATATT AAAAGAAAAA ATAGAAAACA ATAGAAAACA ATAGAAAACA ATAGAAAACA ATAGAAAACA ATAGAAAACA ATAGAAAACA ATAGAAAACA ATACAACAAAA AGAGAAAACA AAAGGAATATTA AAAAAAAA ATAGAAAAACA AAAAAAAAAA	ATAACCAGGG GAATGAGCAA GAGCTCCTTC TGGCAGCGAA TCTGGCAGCGAA TCTGGCATT ACATTACC GCGAGAGCAC TCGTTTTCC TCATCCTAAA CCAGACACCT AACATTATCC AAGTTTATCC GAAGGAAACCA AATTGCTTTT GAAGGAAACCA AATTGCTTTT GAAGGAAACCA AATTGCAGCA CCAATGTCAA AATGTTAGGG TGGAGAAATCC GAGGATAAGTT AATACGGACT AAGCACAATGTCAA TATGCAGATAGGACT AATGCAGGACT AGGATAAGTT AATACGGACT AAGCACAATGTCAAGCA CTAGGACT AATGCAGGACT AATGCAGAATACC TATGGAAATACC TATGGAATACC TATGGAAATACC TATGGAAATACC TATGGAATACC TATGGAATA	ATGAACTTCT ATGGATTTAA CTGGCTGGGA CCTGACATTC CCTGACATTC TGGGATTTAA TCATGACTTTA TGGAATTTA TCATGACTTT TAP-1L 6 CTTAGTATT TTCATGGTAC CCTCTTGTAC TGGGACAAA GGGACAAAA GGGACAAAA TCAGAATTA TCAGAAAGTTA TCAGAAAGTTA TCAGAAAATTA ATGAGAAATTA ATGAGAAATTA ATGAGAAATTA ATGAGAAATTA ATGAGAAATTA TCAGGAAATTA ATGAGAAATTA TCAGGAAATTA ATGAGAAATTA TCAGGAAATTA ATGAGAAATTA TCAGGAAATTA TCAGGAATTAT TCAGGAAATTA TCAGGAAATTA TCAGGAAATTA TCAGGAAATTA TCAGGAATTAT TCAGGAAATTAT TCAGGAATTAT TCAG	

ATTACTATAC CCCCATCCCA ATCTCAGGCA CCTGGAATCA TCCATTTAAA

+2980

APPLN. FILING DATE: JULY 6, 2001 TITLE: NOVEL REGULATORY SEQUENCES OF THE MCP-1 GENE INVENTOR(S): RÖSL ET AL SHEET 7 of 10

APPLICATION SERIAL NO: TBA

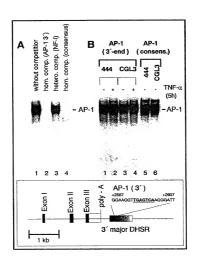
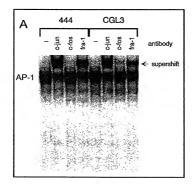


Fig. 7

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GENE INVENTOR(S): RÖSL ET AL

APPLICATION SERIAL NO: TBA SHEET 8 of 10



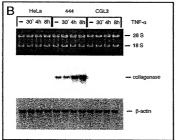
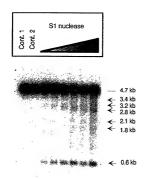


Fig. 8

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INVENTOR(S): RÖSL ET AL APPLICATION SERIAL NO: TBA

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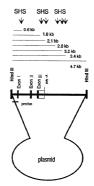


Fig. 9

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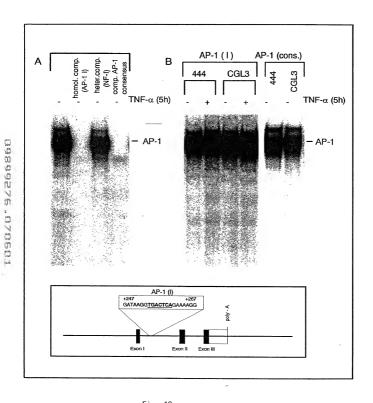


Fig. 10